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SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

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FILE 'AGRICOLA' ENTERED AT 12:25:57 ON 18 MAY 2006

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=> (lead or mercury) and antibody and (autism or autistic)

L1	0 FILE AGRICOLA
L2	0 FILE BIOTECHNO
L3	0 FILE CONFSCI
L4	0 FILE HEALSAFE
L5	0 FILE IMSDRUGCONF
L6	2 FILE LIFESCI
L7	0 FILE PASCAL

TOTAL FOR ALL FILES

L8	2 (LEAD OR MERCURY) AND ANTIBODY AND (AUTISM OR AUTISTIC)
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=> d l8 ibib abs total

L8 ANSWER 1 OF 2 LIFESCI COPYRIGHT 2006 CSA on STN

ACCESSION NUMBER: 2005:56113 LIFESCI
TITLE: Detection of Antinuclear and Antilaminin **Antibodies**
in **Autistic** Children Who Received
Thimerosal-Containing Vaccines
AUTHOR: Singh, V.K.; Rivas, W.H.
CORPORATE SOURCE: Biotechnology Center Building, Utah State University, UMC
4700, Logan, UT 84322 (USA); E-mail: singhvk@cc.usu.edu
SOURCE: Journal of Biomedical Science [J. Biomed. Sci.], (20041000)
vol. 11, no. 5, pp. 607-610.
ISSN: 1021-7770.
DOCUMENT TYPE: Journal
FILE SEGMENT: X
LANGUAGE: English
SUMMARY LANGUAGE: English

AB **Autism**, a neurodevelopmental disorder, may involve autoimmune
pathogenesis. Since **mercury** is potentially a risk factor for
autoimmunity, we conducted a study of **mercury**-induced
antinuclear and antilaminin **antibodies** in **autistic** and
normal children who had been pre-administered with thimerosal-containing
vaccines. Laboratory analysis by different immunoassays showed that the
serum level of these two autoimmune markers did not significantly differ
between **autistic** and normal children. This finding suggests that
the **mercury** as in thimerosal-containing vaccines is likely not
related to autoimmune phenomenon in **autism**.

L8 ANSWER 2 OF 2 LIFESCI COPYRIGHT 2006 CSA on STN
ACCESSION NUMBER: 2004:108019 LIFESCI
TITLE: Infections, toxic chemicals and dietary peptides binding to
lymphocyte receptors and tissue enzymes are major
instigators of autoimmunity in **autism**
AUTHOR: Vojdani, A.; Pangborn, J.B.; Vojdani, E.; Cooper, E.L.
CORPORATE SOURCE: 8693 Wilshire Blvd., Ste. 200, Beverly Hills, CA 90211,
USA; E-mail: DrAri@msn.com
SOURCE: International Journal of Immunopathology and Pharmacology
[Int. J. Immunopathol. Pharmacol.], (20031200) vol. 16, no.
3, pp. 189-199.
ISSN: 0394-6320.
DOCUMENT TYPE: Journal
FILE SEGMENT: F
LANGUAGE: English
SUMMARY LANGUAGE: English

AB Similar to many complex autoimmune diseases, genetic and environmental
factors including diet, infection and xenobiotics play a critical role in
the development of **autism**. In this study, we postulated that
infectious agent antigens such as streptokinase, dietary peptides (gliadin
and casein) and ethyl **mercury** (xenobiotic) bind to different
lymphocyte receptors and tissue enzyme (DPP IV or CD26). We assessed this
hypothesis first by measuring IgG, IgM and IgA **antibodies**
against CD26, CD69, streptokinase (SK), gliadin and casein peptides and
against ethyl **mercury** bound to human serum albumin in patients
with **autism**. A significant percentage of children with
autism developed anti-SK, anti-gliadin and casein peptides and
anti-ethyl **mercury antibodies**, concomitant with the
appearance of anti-CD26 and anti-CD69 autoantibodies. These
antibodies are synthesized as a result of SK, gliadin, casein and
ethyl **mercury** binding to CD26 and CD69, indicating that they are
specific. Immune absorption demonstrated that only specific antigens, like
CD26, were capable of significantly reducing serum anti-CD26 levels.
However, for direct demonstration of SK, gliadin, casein and ethyl
mercury to CD26 or CD69, microtiter wells were coated with CD26 or
CD69 alone or in combination with SK, gliadin, casein or ethyl
mercury and then reacted with enzyme labeled rabbit anti-CD26 or
anti-CD69. Adding these molecules to CD26 or CD69 resulted in 28-86%
inhibition of CD26 or CD69 binding to anti-CD26 or anti-CD69
antibodies. The highest % binding of these antigens or peptides to
CD26 or CD69 was attributed to SK and the lowest to casein peptides. We,
therefore, propose that bacterial antigens (SK), dietary peptides
(gliadin, casein) and Thimerosal (ethyl **mercury**) in individuals
with pre-disposing HLA molecules, bind to CD26 or CD69 and induce

antibodies against these molecules. In conclusion, this study is apparently the first to demonstrate that dietary peptides, bacterial toxins and xenobiotics bind to lymphocyte receptors and/or tissue enzymes, resulting in autoimmune reaction in children with **autism**.

=> file .chemistry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	11.35	11.56

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=> (lead or mercury) and antibody and (autism or autistic)

L9	7 FILE CAPLUS
L10	0 FILE BIOTECHNO
L11	0 FILE COMPENDEX
L12	0 FILE ANABSTR
L13	0 FILE CERAB
L14	0 FILE METADEX
L15	730 FILE USPATFULL

TOTAL FOR ALL FILES

L16 737 (LEAD OR MERCURY) AND ANTIBODY AND (AUTISM OR AUTISTIC)

=> dup rem

ENTER L# LIST OR (END):19

PROCESSING COMPLETED FOR L9

L17 7 DUP REM L9 (0 DUPLICATES REMOVED)

=> d l17 ibib abs total

L17 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:698214 CAPLUS

DOCUMENT NUMBER: 143:171341

TITLE: Methods for detecting infections, toxic chemicals and dietary peptides binding to lymphocyte receptors and tissue enzymes as instigators of autoimmunity in **autism**

INVENTOR(S): Vojdani, Aristo

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 89 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005170333	A1	20050804	US 2004-770712	20040203

PRIORITY APPLN. INFO.: US 2004-770712 20040203

AB The present invention provides methods for diagnosis and following up a prognosis of children with **autism** before and after treatment with different modalities administered by their clinicians, confirming the involvement of infectious agents, dietary proteins, and toxic chems. in development of **autism**. In particular, methods for detecting infections, toxic chems. and dietary peptides binding to lymphocyte receptors and tissue enzymes as instigators of autoimmunity in **autism** are described. The method utilizes detection of increased amts. of **antibodies** against an antigen based on infectious agent, toxic chems., or dietary proteins. Another method utilizes detection of **antibodies** to a self-tissue or peptide.

L17 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:452933 CAPLUS

DOCUMENT NUMBER: 141:37230

TITLE: Nuclear receptors as diagnostic and risk markers for disease and as targets for therapy

INVENTOR(S): Gaitanaris, George A.; Bergmann, John E.; Gracerov, Alexander; Hohmann, John; Li, Fusheng; Madisen, Linda; Mcilwain, Kellie L.; Pavlova, Maria N.; Vassilatis, Demetri; Zeng, Hongkui

PATENT ASSIGNEE(S): Nura, Inc., USA

SOURCE: PCT Int. Appl., 508 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004045369	A2	20040603	WO 2003-US36229	20031112

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003295500 A1 20040615 AU 2003-295500 20031112

PRIORITY APPLN. INFO.: US 2002-426305P P 20021114
WO 2003-US36229 W 20031112

AB Methods of using nuclear receptors as diagnostic markers for disease and for increased risk of disease and in the development of therapeutics for treatment of such diseases are described. The proteins and the genes encoding them may be used in diagnosis. Transgenic animals carrying the human genes for these receptors may be used in screening for effectors. The invention also provides methods for identifying compds. (e.g., agonists or antagonists) using the nuclear receptor polypeptides and polynucleotides of the invention, and for treating conditions associated with nuclear receptor dysfunction with the nuclear receptor polypeptides, polynucleotides, or identified compds. The invention also provides diagnostic assays for detecting diseases or disorders associated with inappropriate nuclear receptor activity or levels.

L17 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:674310 CAPLUS

DOCUMENT NUMBER: 142:22062

TITLE: Detection of Antinuclear and Antilaminin
Antibodies in Autistic Children Who

Received Thimerosal-Containing Vaccines
AUTHOR(S): Singh, Vijendra K.; Rivas, Wyatt H.
CORPORATE SOURCE: Department of Biology, Utah State University, Logan,
UT, USA
SOURCE: Journal of Biomedical Science (Basel, Switzerland)
(2004), 11(5), 607-610
CODEN: JBCIEA; ISSN: 1021-7770
PUBLISHER: S. Karger AG
DOCUMENT TYPE: Journal
LANGUAGE: English

AB **Autism**, a neurodevelopmental disorder, may involve autoimmune pathogenesis. Since **mercury** is potentially a risk factor for autoimmunity, we conducted a study of **mercury**-induced antinuclear and antilaminin **antibodies** in **autistic** and normal children who had been pre-administered with thimerosal-containing vaccines. Laboratory anal. by different immunoassays showed that the serum level of these two autoimmune markers did not significantly differ between **autistic** and normal children. This finding suggests that the **mercury** as in thimerosal-containing vaccines is likely not related to autoimmune phenomenon in **autism**.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:649270 CAPLUS
DOCUMENT NUMBER: 140:89124
TITLE: Reduced Levels of **Mercury** in First Baby
Haircuts of **Autistic** Children
AUTHOR(S): Holmes, Amy S.; Blaxill, Mark F.; Haley, Boyd E.
CORPORATE SOURCE: Baton Rouge, LA, USA
SOURCE: International Journal of Toxicology (2003), 22(4),
277-285
CODEN: IJTOFN; ISSN: 1091-5818
PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Reported rates of **autism** have increased sharply in the United States and the United Kingdom. One possible factor underlying these increases is increased exposure to **mercury** through thimerosal-containing vaccines, but vaccine exposures need to be evaluated in the context of cumulative exposures during gestation and early infancy. Differential rates of postnatal **mercury** elimination may explain why similar gestational and infant exposures produce variable neurol. effects. First baby haircut samples were obtained from 94 children diagnosed with **autism** using Diagnostic and Statistical Manual of Mental Disorders, 4th edition (DSM IV) criteria and 45 age- and gender-matched controls. Information on diet, dental amalgam fillings, vaccine history, Rho D Ig administration, and **autism** symptom severity was collected through a maternal survey questionnaire and clin. observation. Hair **mercury** levels in the **autistic** group were 0.47 ppm vs. 3.63 ppm in controls, a significant difference. The mothers in the **autistic** group had significantly higher levels of **mercury** exposure through Rho D Ig injections and amalgam fillings than control mothers. Within the **autistic** group, hair **mercury** levels varied significantly across mildly, moderately, and severely **autistic** children, with mean group levels of 0.79, 0.46, and 0.21 ppm, resp. Hair **mercury** levels among controls were significantly correlated with the number of the mothers' amalgam fillings and their fish consumption as well as exposure to **mercury** through childhood vaccines, correlations that were absent in the **autistic** group. Hair excretion patterns among **autistic** infants were significantly reduced relative to control. These data cast doubt on the efficacy of traditional hair anal. as a measure of total **mercury** exposure in a subset of the population. In light of the biol. plausibility of **mercury**'s role in neurodevelopmental disorders, the present study provides further insight into one possible mechanism by which early **mercury** exposures could increase the risk of **autism**.

REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS

L17 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:44082 CAPLUS

DOCUMENT NUMBER: 140:216004

TITLE: Infections, toxic chemicals and dietary peptides binding to lymphocyte receptors and tissue enzymes are major instigators of autoimmunity in **autism**

AUTHOR(S): Vojdani, A.; Pangborn, J. B.; Vojdani, E.; Cooper, E. L.

CORPORATE SOURCE: Laboratory of Comparative Neuroimmunology, Department of Neurobiology, David Geffen School of Medicine at UCLA, University of California, Los Angeles, Los Angeles, CA, 90095, USA

SOURCE: International Journal of Immunopathology and Pharmacology (2003), 16(3), 189-199
CODEN: IJIP4; ISSN: 0394-6320

PUBLISHER: Biolife s.a.s.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Similar to many complex autoimmune diseases, genetic and environmental factors including diet, infection and xenobiotics play a critical role in the development of **autism**. In this study, we postulated that infectious agent antigens such as streptokinase, dietary peptides (gliadin and casein) and Et **mercury** (xenobiotic) bind to different lymphocyte receptors and tissue enzyme (DPP IV or CD26). We assessed this hypothesis first by measuring IgG, IgM and IgA **antibodies** against CD26, CD69, streptokinase (SK), gliadin and casein peptides and against Et **mercury** bound to human serum albumin in patients with **autism**. A significant percentage of children with **autism** developed anti-SK, anti-gliadin and casein peptides and anti-Et **mercury antibodies**, concomitant with the appearance of anti-CD26 and anti-CD69 autoantibodies. These **antibodies** are synthesized as a result of SK, gliadin, casein and Et **mercury** binding to CD26 and CD69, indicating that they are specific. Immune absorption demonstrated that only specific antigens, like CD26, were capable of significantly reducing serum anti-CD26 levels. However, for direct demonstration of SK, gliadin, casein and Et **mercury** to CD26 or CD69, microtiter wells were coated with CD26 or CD69 alone or in combination with SK, gliadin, casein or Et **mercury** and then reacted with enzyme labeled rabbit anti-CD26 or anti-CD69. Adding these mols. to CD26 or CD69 resulted in 28-86% inhibition of CD26 or CD69 binding to anti-CD26 or anti-CD69 **antibodies**. The highest % binding of these antigens or peptides to CD26 or CD69 was attributed to SK and the lowest to casein peptides. We, therefore, propose that bacterial antigens (SK), dietary peptides (gliadin, casein) and Thimerosal (Et **mercury**) in individuals with pre-disposing HLA mols.; bind to CD26 or CD69 and induce **antibodies** against these mols. In conclusion, this study is apparently the first to demonstrate that dietary peptides, bacterial toxins and xenobiotics bind to lymphocyte receptors and/or tissue enzymes, resulting in autoimmune reaction in children with **autism**.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:82298 CAPLUS

DOCUMENT NUMBER: 138:219855

TITLE: Vaccines, viruses, and voodoo

AUTHOR(S): Borchers, Andrea T.; Keen, Carl L.; Shoenfeld, Yehuda; Silva, Joseph, Jr.; Gershwin, M. Eric

CORPORATE SOURCE: Division of Rheumatology, Allergy and Clinical Immunology, University of California at Davis, Davis, CA, USA

SOURCE: Journal of Investigational Allergology and Clinical Immunology (2002), 12(3), 155-168
CODEN: JIAIEF; ISSN: 1018-9068

PUBLISHER: Hogrefe & Huber Publishers

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. Vaccinations are invaluable in protection from a wide variety of diseases that can cause substantial morbidity and mortality. Although a rare complication of vaccination, autoimmune disorders represent one of these morbidities. Recently, widespread public concern has arisen from case reports suggesting that-similar to what has been observed after natural viral infections-there might be an association between specific immunizations and autoimmune diseases. Herein we address the biol. plausibility of such a connection, focusing particularly on the examples of hepatitis B, rubella, and measles-mumps-rubella (MMR) vaccinations, and the autoimmune diseases they are potentially associated with. Our review of the available data suggests that, for the general population, the risk:benefit ratio is overwhelmingly in favor of vaccinations. However, the possibility cannot be ruled out that, in genetically susceptible individuals, vaccination can result in the unmasking of an autoimmune disease triggered by the immunization. We also critically examine the existing data suggesting a link between immunization against MMR and autism, and briefly discuss the controversial evidence pointing to a possible relationship between mercury exposure from vaccines and autistic disorders. There is a continued urgent need for rigorously designed and executed studies addressing these potential assocns., although the use of vaccinations remains a critical public health tool for protection against infectious disease.

REFERENCE COUNT: 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:295400 CAPLUS

DOCUMENT NUMBER: 135:191427

TITLE: The neurotoxic etiology of the autistic spectrum disorders: a replication study

AUTHOR(S): Edelson, Stephen B.; Cantor, David

CORPORATE SOURCE: The Edelson Center for Environmental and Preventive Medicine, Inc., Atlanta, GA, 30342, USA

SOURCE: Toxicology and Industrial Health (2000), 16(6), 239-247

CODEN: TIHEEC; ISSN: 0748-2337

PUBLISHER: Arnold, Hodder Headline

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Although it has been recognized that autism is a disorder due to dysfunctional central nervous system functioning, a model that can account for the diversity of the symptoms in the syndrome and the concordant anomalies in metabolic functioning, in a sample of 20 autistic individuals, Edelson and Cantor demonstrated a body burden of neurotoxicants in over 90% of these individuals with 100% of these individuals demonstrating impaired liver detoxication processes. This current study examined an independent sample of 39 autistic individuals and was able to replicate the general findings of Edelson and Cantor. The authors further evidence the genetic and environmental aspects of this hypothetical process and believe the immune system injury secondary to the immunotoxins causes "activation" of the immune system leading to the production of autoantibodies against haptens (brain proteins attached to chemical mols.), and the subsequent damage as part of the process of neurotoxicity in the autistic spectrum. This process has as its final pathway one of free radical generation and mol. injury. This paper can not go into the complex details of this process at this time. All of the above leads to a spectrum of neurodevelopment dysfunction demonstrated as autism.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> metal and (antigen or antibody) and (autism or autistic)

L18 3 FILE CAPLUS

L19 0 FILE BIOTECHNO

L20 0 FILE COMPENDEX

L21 0 FILE ANABSTR

L22 0 FILE CERAB
L23 0 FILE METADEX
L24 571 FILE USPATFULL

TOTAL FOR ALL FILES

L25 574 METAL AND (ANTIGEN OR ANTIBODY) AND (AUTISM OR AUTISTIC)

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L26 3 DUP REM L18 (0 DUPLICATES REMOVED)

=> d l26 ibib abs total

L26 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:452933 CAPLUS

DOCUMENT NUMBER: 141:37230

TITLE: Nuclear receptors as diagnostic and risk markers for disease and as targets for therapy

INVENTOR(S): Gaitanaris, George A.; Bergmann, John E.; Gracerov, Alexander; Hohmann, John; Li, Fusheng; Madisen, Linda; Mcilwain, Kellie L.; Pavlova, Maria N.; Vassilatis, Demetri; Zeng, Hongkui

PATENT ASSIGNEE(S): Nura, Inc., USA

SOURCE: PCT Int. Appl., 508 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004045369	A2	20040603	WO 2003-US36229	20031112
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003295500	A1	20040615	AU 2003-295500	20031112
PRIORITY APPLN. INFO.:			US 2002-426305P	P 20021114
			WO 2003-US36229	W 20031112

AB Methods of using nuclear receptors as diagnostic markers for disease and for increased risk of disease and in the development of therapeutics for treatment of such diseases are described. The proteins and the genes encoding them may be used in diagnosis. Transgenic animals carrying the human genes for these receptors may be used in screening for effectors. The invention also provides methods for identifying compds. (e.g., agonists or antagonists) using the nuclear receptor polypeptides and polynucleotides of the invention, and for treating conditions associated with nuclear receptor dysfunction with the nuclear receptor polypeptides, polynucleotides, or identified compds. The invention also provides diagnostic assays for detecting diseases or disorders associated with inappropriate nuclear receptor activity or levels.

L26 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:905350 CAPLUS

DOCUMENT NUMBER: 141:370510

TITLE: Screening for agents modulating CIRL3-L (calcium independent receptor of latrotoxin 3-like) protein related activity and use for treating metal disorders

INVENTOR(S): Croll-Kalish, Susan; Torres, Richard; Murphy, Andrew J.

PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 20 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004213738	A1	20041028	US 2004-804532	20040319
PRIORITY APPLN. INFO.:			US 2003-459076P	P 20030331

AB Provided is a human Calcium Independent Receptor of Latrotoxin 3-Like (CIRL3-L) protein, as well as the encoding nucleic acid, methods for screening for agents capable of modulating CIRL3-L related activity and treating CIRL3-L-mediated conditions. Further provided are animal models useful for screening agents capable of ameliorating or reducing anxiety related disorders, obsessive-compulsive disorders, seizure related disorders and autism and other pervasive developmental disorders.

L26 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:391987 CAPLUS
 DOCUMENT NUMBER: 136:395976
 TITLE: System and method for assaying drugs effects on central nervous system
 INVENTOR(S): Soreq, Hermona; Meshorer, Eran; Sklan, Ella; Shoham, Shai
 PATENT ASSIGNEE(S): Yissum Research Development Company of the Hebrew University of Jerusalem, Israel
 SOURCE: PCT Int. Appl., 114 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040994	A2	20020523	WO 2001-IL1051	20011114
WO 2002040994	A3	20021219		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002023996	A5	20020527	AU 2002-23996	20011114
US 2004058357	A1	20040325	US 2003-432131	20030926
PRIORITY APPLN. INFO.:			US 2000-247970P	P 20001114
			WO 2001-IL1051	W 20011114

AB The invention relates to a method and system for evaluating an effect on the nervous system of a test drug by comparing the effect of such drug on AChE catalytic activity or isoform variance in the brain of a test animal following challenge by an AChE blocker (e.g. DFP) or a blocker of AChE and muscarinic receptors M1 and M2 (e.g. pyridostigmine) and comparing this effect with that of a known agent, preferably a non-selective muscarinic receptor blocker (e.g. scopolamine) or a specific M1 receptor blocker (e.g. pirenzepine). Also provided is a method of screening for a candidate drug that is a modulator of the expression of any one of AChE variants and isoforms by determining the effect of such drug on the translocation of an AChE isoform within a neuron. Further provided is a method of screening for a candidate drug aimed at affecting central nervous system properties which is a modulator of the interaction between AChE-R/RACK1/PKC.

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=> toxic and antibody and (autism or autistic)

L27	0 FILE AGRICOLA
L28	0 FILE BIOTECHNO
L29	0 FILE CONFSCI
L30	0 FILE HEALSAFE
L31	0 FILE IMSDRUGCONF
L32	1 FILE LIFESCI
L33	0 FILE PASCAL

TOTAL FOR ALL FILES

L34	1 TOXIC AND ANTIBODY AND (AUTISM OR AUTISTIC)
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=> d l34 ibib abs total

L34 ANSWER 1 OF 1 LIFESCI COPYRIGHT 2006 CSA on STN

ACCESSION NUMBER: 2004:108019 LIFESCI

TITLE: Infections, **toxic** chemicals and dietary peptides
binding to lymphocyte receptors and tissue enzymes are
major instigators of autoimmunity in **autism**

AUTHOR: Vojdani, A.; Pangborn, J.B.; Vojdani, E.; Cooper, E.L.

CORPORATE SOURCE: 8693 Wilshire Blvd., Ste. 200, Beverly Hills, CA 90211,
USA; E-mail: DrAri@msn.com

SOURCE: International Journal of Immunopathology and Pharmacology
[Int. J. Immunopathol. Pharmacol.], (20031200) vol. 16, no.
3, pp. 189-199.
ISSN: 0394-6320.

DOCUMENT TYPE: Journal

FILE SEGMENT: F

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Similar to many complex autoimmune diseases, genetic and environmental factors including diet, infection and xenobiotics play a critical role in the development of **autism**. In this study, we postulated that infectious agent antigens such as streptokinase, dietary peptides (gliadin and casein) and ethyl mercury (xenobiotic) bind to different lymphocyte receptors and tissue enzyme (DPP IV or CD26). We assessed this hypothesis first by measuring IgG, IgM and IgA **antibodies** against CD26, CD69, streptokinase (SK), gliadin and casein peptides and against ethyl mercury bound to human serum albumin in patients with **autism**. A significant percentage of children with **autism** developed anti-SK, anti-gliadin and casein peptides and anti-ethyl mercury **antibodies**, concomitant with the appearance of anti-CD26 and anti-CD69 autoantibodies. These **antibodies** are synthesized as a result of SK, gliadin, casein and ethyl mercury binding to CD26 and CD69, indicating that they are specific. Immune absorption demonstrated that only specific antigens, like CD26, were capable of significantly reducing serum anti-CD26 levels. However, for direct demonstration of SK, gliadin, casein and ethyl mercury to CD26 or CD69, microtiter wells were coated

with CD26 or CD69 alone or in combination with SK, gliadin, casein or ethyl mercury and then reacted with enzyme labeled rabbit anti-CD26 or anti-CD69. Adding these molecules to CD26 or CD69 resulted in 28-86% inhibition of CD26 or CD69 binding to anti-CD26 or anti-CD69 **antibodies**. The highest % binding of these antigens or peptides to CD26 or CD69 was attributed to SK and the lowest to casein peptides. We, therefore, propose that bacterial antigens (SK), dietary peptides (gliadin, casein) and Thimerosal (ethyl mercury) in individuals with pre-disposing HLA molecules, bind to CD26 or CD69 and induce **antibodies** against these molecules. In conclusion, this study is apparently the first to demonstrate that dietary peptides, bacterial toxins and xenobiotics bind to lymphocyte receptors and/or tissue enzymes, resulting in autoimmune reaction in children with **autism**.

=> chemical and antibody and (autism or autistic)

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L35      0 FILE AGRICOLA
L36      0 FILE BIOTECHNO
L37      0 FILE CONFSCI
L38      0 FILE HEALSAFE
L39      0 FILE IMSDRUGCONF
L40      1 FILE LIFESCI
L41      1 FILE PASCAL
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TOTAL FOR ALL FILES

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L42      2 CHEMICAL AND ANTIBODY AND (AUTISM OR AUTISTIC)
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=> dup rem

ENTER L# LIST OR (END):l42

DUPLICATE IS NOT AVAILABLE IN 'IMSDRUGCONF'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L42

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L43      2 DUP REM L42 (0 DUPLICATES REMOVED)
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=> d l43 ibib abs total

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ACCESSION NUMBER:  2004:108019  LIFESCI
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TITLE:             Infections, toxic chemicals and dietary peptides
                    binding to lymphocyte receptors and tissue enzymes are
                    major instigators of autoimmunity in autism
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AUTHOR:            Vojdani, A.; Pangborn, J.B.; Vojdani, E.; Cooper, E.L.
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CORPORATE SOURCE:  8693 Wilshire Blvd., Ste. 200, Beverly Hills, CA 90211,
                    USA; E-mail: DrAri@msn.com
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SOURCE:            International Journal of Immunopathology and Pharmacology
                    [Int. J. Immunopathol. Pharmacol.], (2003)1200 vol. 16, no.
                    3, pp. 189-199.
                    ISSN: 0394-6320.
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DOCUMENT TYPE:     Journal
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FILE SEGMENT:      F
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LANGUAGE:           English
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SUMMARY LANGUAGE:  English
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factors including diet, infection and xenobiotics play a critical role in
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significant percentage of children with autism developed
anti-SK, anti-gliadin and casein peptides and anti-ethyl mercury
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anti-CD69 autoantibodies. These antibodies are synthesized as a
result of SK, gliadin, casein and ethyl mercury binding to CD26 and CD69,
indicating that they are specific. Immune absorption demonstrated that
only specific antigens, like CD26, were capable of significantly reducing
serum anti-CD26 levels. However, for direct demonstration of SK, gliadin,
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casein and ethyl mercury to CD26 or CD69, microtiter wells were coated with CD26 or CD69 alone or in combination with SK, gliadin, casein or ethyl mercury and then reacted with enzyme labeled rabbit anti-CD26 or anti-CD69. Adding these molecules to CD26 or CD69 resulted in 28-86% inhibition of CD26 or CD69 binding to anti-CD26 or anti-CD69 **antibodies**. The highest % binding of these antigens or peptides to CD26 or CD69 was attributed to SK and the lowest to casein peptides. We, therefore, propose that bacterial antigens (SK), dietary peptides (gliadin, casein) and Thimerosal (ethyl mercury) in individuals with pre-disposing HLA molecules, bind to CD26 or CD69 and induce **antibodies** against these molecules. In conclusion, this study is apparently the first to demonstrate that dietary peptides, bacterial toxins and xenobiotics bind to lymphocyte receptors and/or tissue enzymes, resulting in autoimmune reaction in children with **autism**.

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ACCESSION NUMBER: 1995-0592064 PASCAL
 COPYRIGHT NOTICE: Copyright .COPYRGT. 1995 INIST-CNRS. All rights reserved.
 TITLE (IN ENGLISH): Low-dose naltrexone effects on plasma chemistries and clinical symptoms in **autism** : a double-blind, placebo-controlled study
 AUTHOR: BOUVARD M. P.; LEBOYER M.; LAUNAY J.-M.; RECASENS C.; PLUMET M.-H.; WALLER-PEROTTE D.; TABUTEAU F.; BONDOUX D.; DUGAS M.; LENSING P.; PANKSEPP J.
 CORPORATE SOURCE: Hop. Robert Debre, serv. psychopathologie enfant adolescent, 75019 Paris, France; Hop. Pitie Salpetriere, serv. psychiatrie adulte, 75013 Paris, France; Hop. Saint Louis, lab. neurochimie communications cellulaires, 75010 Paris, France
 SOURCE: Psychiatry research, (1995), 58(3), 191-201, refs. 1 p.1/4
 ISSN: 0165-1781 CODEN: PSRSDR
 DOCUMENT TYPE: Journal
 BIBLIOGRAPHIC LEVEL: Analytic
 COUNTRY: Ireland
 LANGUAGE: English
 AVAILABILITY: INIST-18303, 354000050442690020

AN 1995-0592064 PASCAL
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 AB The effect of month-long naltrexone (NTX) treatment at a daily oral dose of 0.5 mg/kg/day was contrasted with placebo (PLC) in a double-blind study with conjoint clinical and biochemical evaluations of therapeutic effects. Modest clinical benefits were achieved with both PLC and NTX, with marginally better overall results following NTX, and degree of improvement appeared to be related to plasma **chemical** profiles. Massively elevated levels of β -endorphin were observed in all children with assays using C-terminal **antibody** but not with an N-terminal **antibody** assay. In addition, 70% of the children exhibited abnormally low levels of adrenocorticotrophic hormone, and smaller subsets exhibited elevated norepinephrine (60%), arginine-vasopressin (50%), and serotonin (20%). The best clinical responders exhibited the clearest normalization of the elevated plasma chemistries, especially in C-terminal- β -endorphin and serotonin. There was some evidence of therapeutic carry-over effects in both clinical and biochemical measures in those children who received NTX before PLC. The results suggest that NTX only benefits a subgroup of **autistic** children, who may be identified by the presence of certain plasma abnormalities. These results suggest a possible linkage between abnormal plasma chemistries, especially those related to the pro-opiomelanocortin system, and **autistic** symptoms.

=> (PCB or xenobiotic or methylmercury) and antibody and (austism or autistic)
 L44 0 FILE AGRICOLA
 L45 0 FILE BIOTECHNO
 L46 0 FILE CONFSCI
 L47 0 FILE HEALSAFE

L48 0 FILE IMSDRUGCONF
L49 0 FILE LIFESCI
L50 0 FILE PASCAL

TOTAL FOR ALL FILES

L51 0 (PCB OR XENOBIOTIC OR METHYLMERCURY) AND ANTIBODY AND (AUSTISM
OR AUTISTIC)

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visualization results
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NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
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NEWS 11 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL
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